Graphing Logarithmic Functions: Asymptotes, Domain, and Key Points

Original task 1 / independent drawing and calculation

Task 1

Graph y = log_3(x - 2). State the domain, asymptote, x-intercept, and two key points.

Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

Graphing Logarithmic Functions: Asymptotes, Domain, and Key Points

Original task 2 / independent drawing and calculation

Task 2

Graph y = log_2(x + 1) - 2. State the domain, asymptote, x-intercept, and two key points.

Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

Graphing Logarithmic Functions: Asymptotes, Domain, and Key Points

Original task 3 / independent drawing and calculation

Task 3

Graph y = log_5(x - 4) + 1. State the domain, asymptote, x-intercept, and two key points.

Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

Graphing Logarithmic Functions: Asymptotes, Domain, and Key Points

Original task 4 / independent drawing and calculation

Task 4

Graph y = log_2(x - 3) + 2. State the domain, asymptote, whether an x-intercept exists, and two key points.

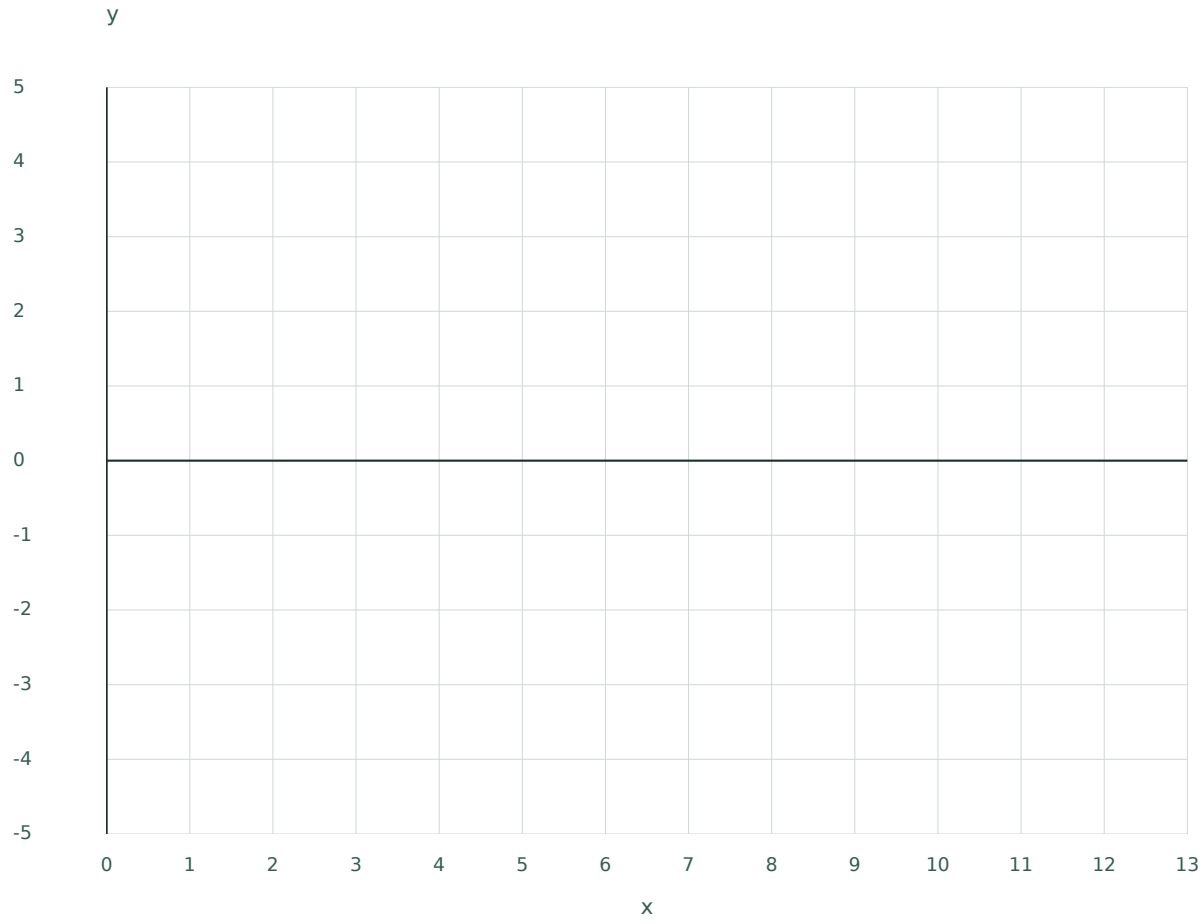
Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

Full drawing sheet / reusable blank workspace

Reusable full drawing sheet for Tasks 1 to 4. Print another copy when needed. Keep all original task measurements; if a task specifies larger paper, use that paper size.

Graphing Logarithmic Functions: Asymptotes, Domain, and Key Points

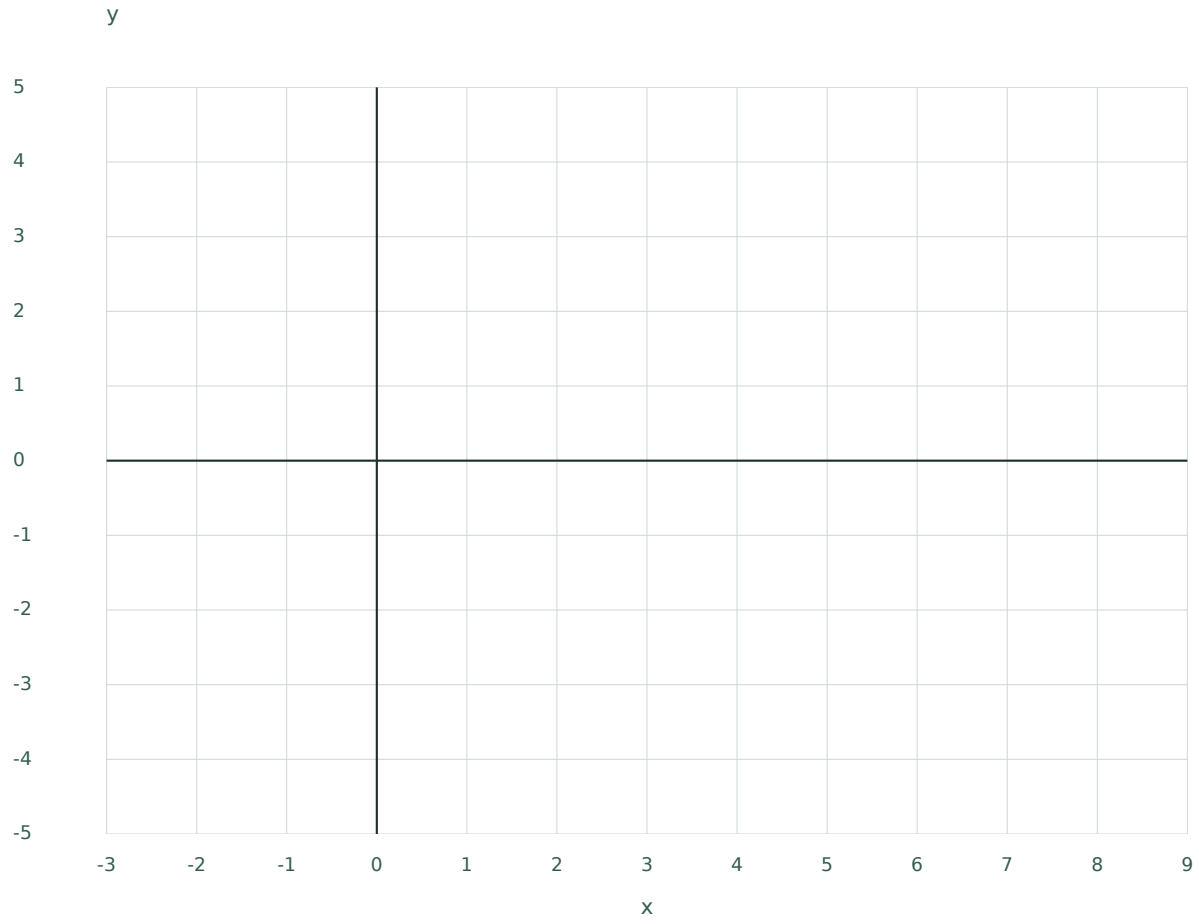
Task 1 / given or blank workspace



Student plotting workspace. No solution has been filled in.

Graphing Logarithmic Functions: Asymptotes, Domain, and Key Points

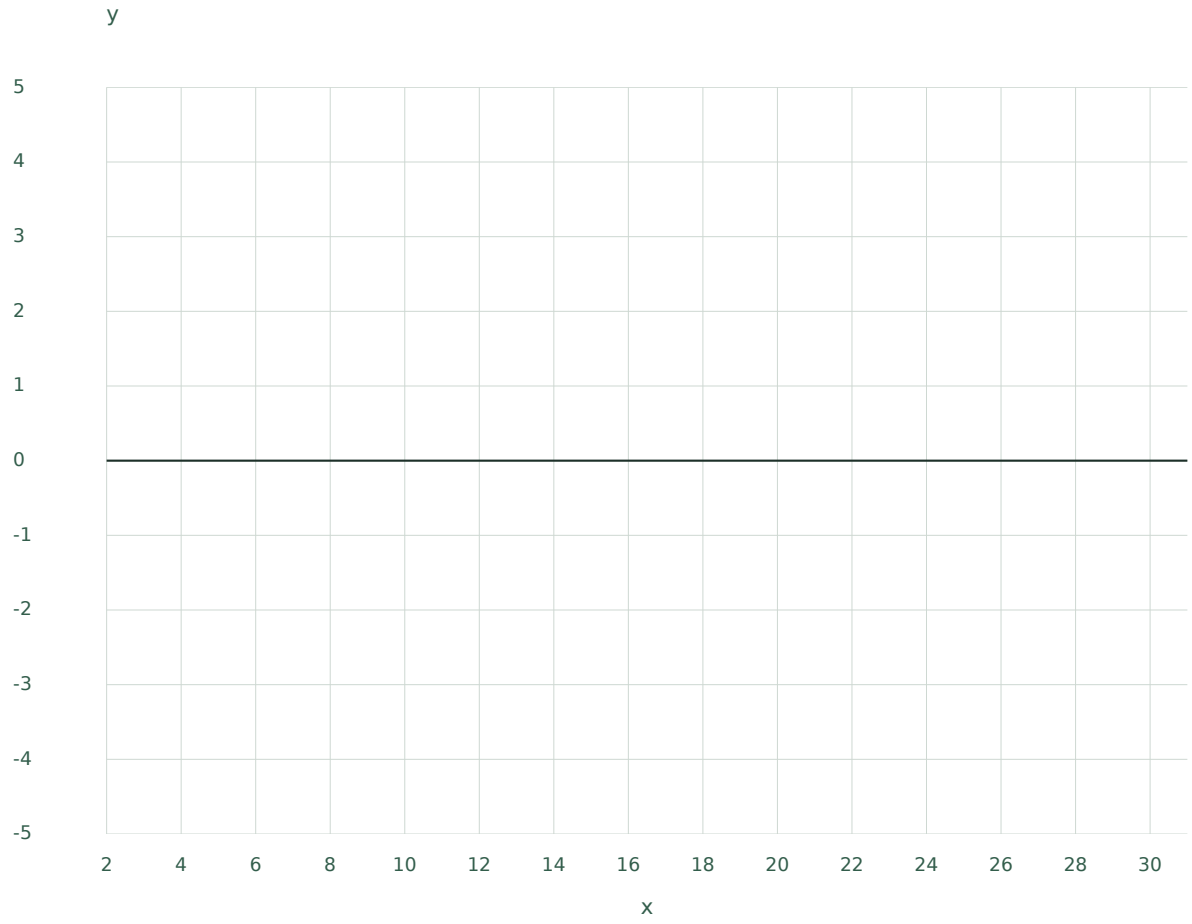
Task 2 / given or blank workspace



Student plotting workspace. No solution has been filled in.

Graphing Logarithmic Functions: Asymptotes, Domain, and Key Points

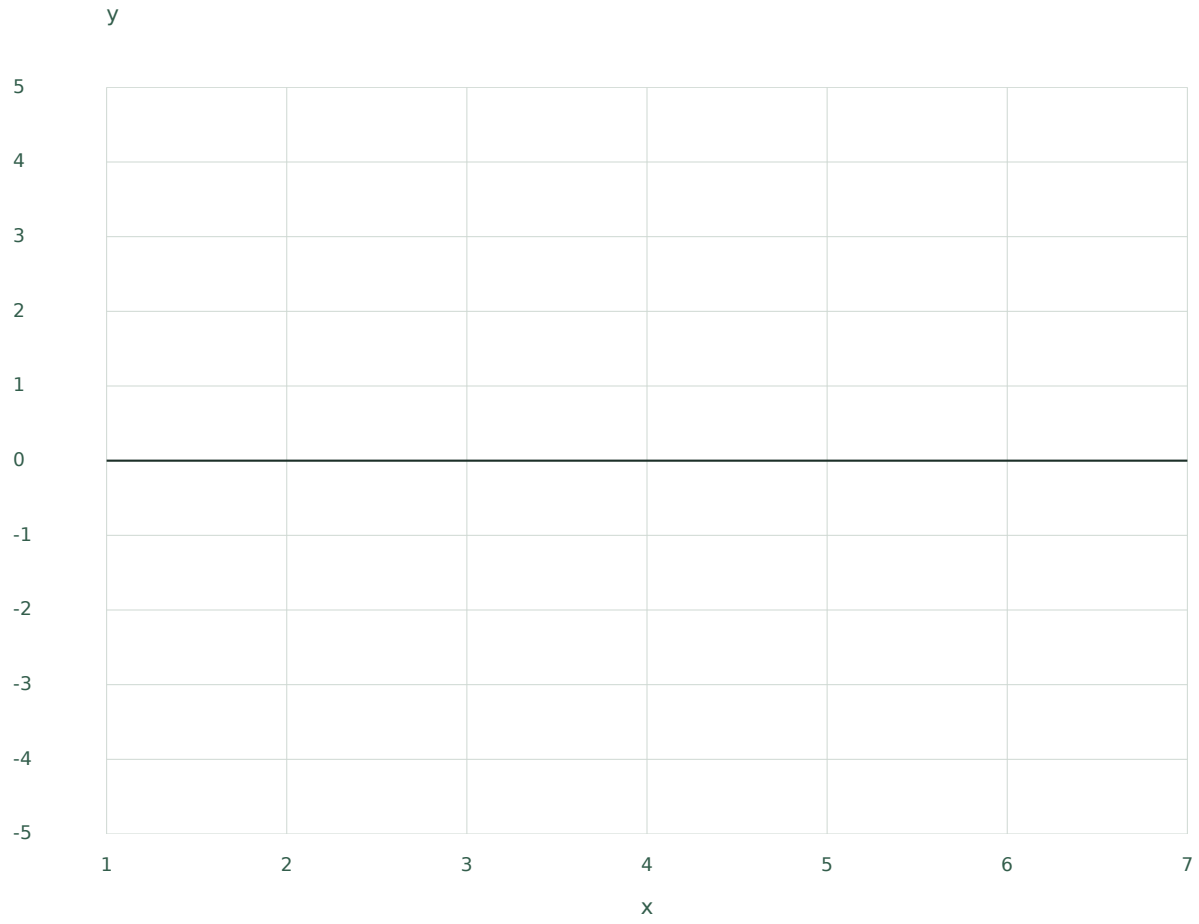
Task 3 / given or blank workspace



Student plotting workspace. No solution has been filled in.

Graphing Logarithmic Functions: Asymptotes, Domain, and Key Points

Task 4 / given or blank workspace



Student plotting workspace. No solution has been filled in.